

Name _____

Period _____

Velocity Practice Problems

Directions: Solve the following velocity problems.

Show all your work. Include the given information and the equation used.

Be sure to include UNITS, and when it is necessary a DIRECTION!!!

1. Calculate the average velocity for a bird that fly a distance of 125 kilometers South in 12 hours time.

Given	Equation	Work	Answer

2. A football is pitched back 3 yards and then thrown forward a distance of 20 yards. What is its average velocity if it takes 0.9 seconds to complete the motion?

Given	Equation	Work	Answer

3. How much time does it take for a bumble bee flying at an average velocity of 5 kilometers per hour south to travel a distance of 80 kilometers?

Given	Equation	Work	Answer

4. A space rover is cruising through the solar system at a velocity of 51,000 kilometers per hour away from earth for 4 hours time. What is the total displacement of the comet during this time?

Given	Equation	Work	Answer

5. If Jack throws the boomerang 50 meters away in 3 seconds, and then it returns to his hand in a time of 4 seconds what is the average velocity of the boomerangs motion?

Given	Equation	Work	Answer

6. If it takes Amelia 3 seconds to run forward from the batters box to first base at an average velocity of 6.5 meters per second, what is her displacement?

Given	Equation	Work	Answer

7. Jimmy was being chased by a skunk, he ran 500 meters North and then turned 90 degrees and ran 350 m East with an average velocity of 6 meters/second northeast before he got sprayed. What was is length of time Jimmy was being chased?

Given	Equation	Work	Answer

8. If Renee races her Chevy S-10 down Highway 37 for 2560 meters in 60 seconds, and then turns around (180 degrees) and drives back up Highway 37 for 560 meters in 40 seconds to meet her opponent, what is Renee's average velocity ?

Given	Equation	Work	Answer

9. Matt rides his motorcycle at an average velocity of 20 meters/second West for 700 seconds, what is his displacement?

Given	Equation	Work	Answer

10. Sarah pogo sticks at an average velocity of 8 meters per second forward, how long will it take her to complete a race of 88 meters forward?

Given	Equation	Work	Answer